

Meet Y-12's Emergency Radiation Dosimetry Laboratory

Adult Education Sets Spring Registration

Varied Courses Offered At Oak Ridge High

Registration for the Adult Education Program's Spring Quarter begins Monday February 26, at the Adult Education Offices at the Oak Ridge High School. Office hours are from 6:30 p.m. until 9:30 p.m.

Classes begin March 5 and extend through May 26.

Business courses offered are Accounting, Business English, Business Mathematics, Business Psychology, Clerical Procedures, Filing and Indexing, Shorthand I, II, III and IV, Medical Secretary, Office Machines, Personality and Human Relations, Pharmacology, Rapid Reading, Spelling and Vocabulary, Stenotype Shorthand, and Typing, both I and II.

In the General Subjects are included: Art—Drawing and Painting, Blueprint Reading, Bridge, Driver Training, English for Foreign Born, Genetics, Investments—Stocks and Bonds, French, German, Machine Shop, Mathematics: Calculus, Mathematics—High School, Shop Mathematics, Rapid Reading, and General Sewing.

All classes are held in the Oak Ridge High School building. Fees are reasonable for all courses offered.

Further information may be obtained at the Adult Education Offices, or by telephoning Oak Ridge 483-6316.

February's Poster Race Draws Nearer Dead-Line

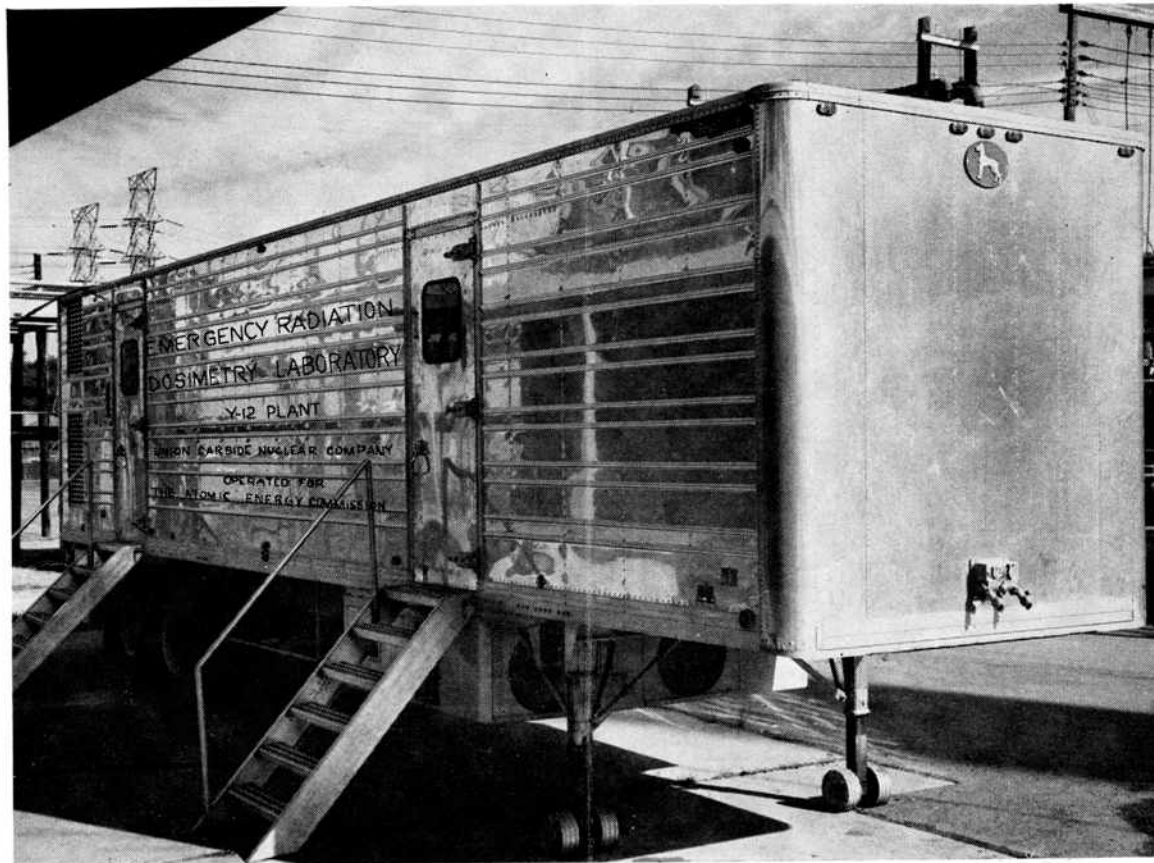
Next Wednesday, February 28, is the dead-line for entering February's poster contest, sponsored by the Safety Department. "The Safe Use of Solvents" is the announced theme for the current race. Prizes offered are a beautiful piece of luggage and an electric percolator. The first place winner will take his choice of these two fine awards.

Any employee in Y-12 is eligible to enter the contest. The rules are simple, and the poster contribution need not be elaborate. One winner, a few months ago, submitted his winning entry on a piece of cardboard. Safety points out that the rules were strained a little on this one, but the idea was so good, the award went in that direction just the same.

Safety reports many good entries have already come in for judging in the current contest.

SAFETY SCOREBOARD

The Y-12 Plant Has
Operated
52 Days Or
1,707,000 Man-Hours
(Unofficial Estimate)
Without A Disabling
Injury
Through February 18
Phone 7755
For Daily Report
On Accident-Free Hours



RADIATION SAFETY'S BIG Emergency Radiation Dosimetry Laboratory is poised for its exhibition trip to Oak Ridge tomorrow, Thursday, February 22. Y-12ers, in addition to the general public, will have the opportunity to view the complex mechanism of radiation detection. Y-12 employees will be on hand to answer any questions.

Y-12er And Brother's Double Rites Are Held

A. P. Cox Expired Tuesday, February 13

Funeral services were held Friday, February 16, at 2 p.m. for Arthur P. Cox, Chemical Department, at Mynatt's Chapel,



Arthur P. Cox

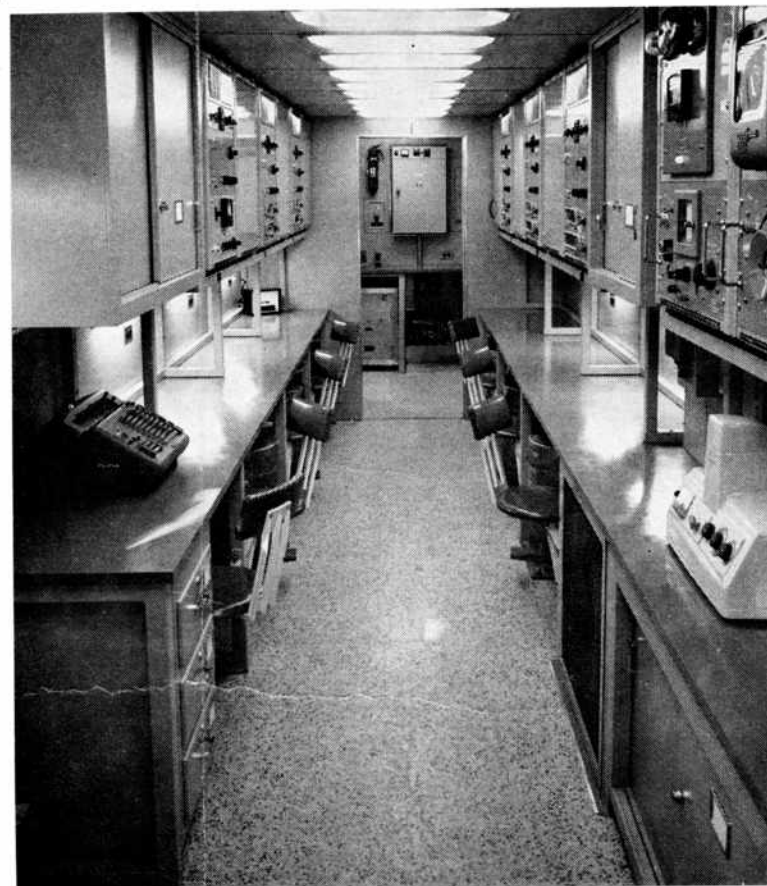
Knoxville. Rev. Clarence F. Lundy officiated. Double services were held for Mr. Cox and his brother, John W. Cox, Strawberry Plains. Both men died the same day, Tuesday, February 13.

Mr. Arthur P. Cox came to Y-12 originally in 1943, returning again for employment in January, 1951. He was born in Dandridge, Tenn., the son of Rev. and Mrs. J. O. Cox. Both parents are deceased. He is survived by three sisters, Mrs. J. R. Weeks, Dayton, Ohio; Mrs. L. E. Bailey, Strawberry Plains; Mrs. Roy Slocum, Hillsdale, N. Y.; two brothers, Stanley Cox, Miami, Fla.; and O. K. Cox, Knoxville; in addition to several nieces and nephews.

A veteran of the United States Air Force during World War II, Mr. Cox attended Carter High School and Knoxville High School. He lived at 3206 Wimpole Street, Knoxville.

Interment followed the rites in Knoxville at the Shady Grove Cemetery.

Fellow employees send their condolences to Mr. Cox's surviving families.



THE INTERIOR OF THE ERDL shows the scintillation counting systems and data processing area. The air-conditioned trailer has its own water supply and electric generator.

Radiation Lab To Make Public Debut Tomorrow

Display Planned To Commemorate Engineering Week

How can something be measured that can not be seen, felt, tasted or smelled? It has no appreciable mass, occupies no space, is weightless and completely invisible. Y-12's Radiation Safety Department can give a ready answer to this question... with a dosimeter which measures radioactivity.

The long, silver-colored trailer which houses Y-12's Emergency Radiation Dosimetry Laboratory will be in Oak Ridge tomorrow, Thursday, February 22. It will be located between Western Auto and Walgreen's. This will give the general public as well as Y-12ers an opportunity to view the mobile unit.

It was in 1896, that a Frenchman, Antoine Henri Becquerel accidentally discovered that uranium emits invisible radiation. His study of X-rays brought about the discovery of radioactivity. Today, the study of radioactivity's effect on man is encompassed in the vast health physics field. Actually, atomic energy and radiation are not as strange as is generally thought. There are no hints of "black magic." Atomic energy is based on life itself. The sun has been radiating vast amounts of energy for millions of years, and is one of the greatest factories known for "atomic energy."

Emergency Laboratory

Any plant where fissionable materials are used in quantity is subject to radiation incidents. The Emergency Radiation Dosimetry Laboratory (ERDL) is provided to appraise such an emergency. While its primary purpose is to measure radioactivity after an incident, its day by day existence is utilized by Radiation Safety personnel to supplement their monitoring jobs.

A dosimeter is the heart of the ERDL program. Actually a dosimeter is just what it says — it measures a dose. Dosage has come to be almost synonymous with radiation and its measurement.

Badges Contain Indium

Security badges worn by Y-12ers contain an important metal called indium. This white, malleable element has a good "memory" for radioactivation. Its sensitivity to exposure makes it ideal for use in detecting radiation exposure.

In addition to the monitoring badges worn by all personnel in Y-12 area, detectors known as "Threshold detectors" are placed at strategic sites to be subsequently used in the computation of exposure. These detectors are classified as primary and secondary threshold detectors, and are placed by Radiation Safety at various points in the plant. Readings from these instruments supplement the data gathered from other sources.

Make Believe Incident

Suppose a nuclear incident should take place. A plant emergency...
Continued on Page 4

Washington's Birthday Official Holiday

Tomorrow, Thursday, February 22 is an official holiday in Y-12. No employees will be required to work except those required for the continuous operation and protection of the plant.

Don't tell anyone, but February 22 is NOT George Wash-

ington's birthday. Actually, the first president was born February 11, 1732, the son of Augustine Washington and Mary Ball in Westmoreland County, Virginia. The Old Style calendar was done away with, and Washington's birthday was established as February 22.

The Bulletin

Published Weekly By And For
Y-12 Employees Of
UNION CARBIDE
NUCLEAR COMPANY
Division of



UNION CARBIDE CORPORATION

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Popular Y-12er Dies Sunday, February 11

Lettie Ault Active In Plant Functions

The Y-12 Plant was saddened and shocked last week by the death of one of its most popular employees, Lettie C. Ault. She died Sunday, February 11. Active in sports and recreational activities,



Lettie Ault

she was always eager to do her share and more in company functions. At the time of her untimely death, she was selling tickets to the Engineering Division's party, and had already filed her entry in the Y-12 Bowling Tournament.

Coming to Y-12, from Oak Ridge Gaseous Diffusion Plant, her original hire-in date was July 21, 1954. A native of Lake City, Lettie is survived by her parents, Mr. and Mrs. Arthur Canupp, in addition to her husband, Mr. James C. Ault. There are seven surviving sisters: Mrs. Irene Nelson, Oak Ridge; Mrs. Annie Pollette, Wartburg; Mrs. Minnie Tinker, Oliver Springs; Mrs. Geneva Henegar, Knoxville; Mrs. Ruby Foust, Nashville; Mrs. Willa Tetty, Dixon, and Mrs. Glenna Lou Allen, Lake City; three brothers: George R. Canupp, Hamilton, Ohio; Arthur Damon Canupp, with the United States Air Force in Kansas, and Jackie Canupp, Lake City.

Mrs. Ault was employed in Project Engineering at the time of her death.

Funeral services were held Wednesday, February 14, at the Martin Funeral Chapel, Oak Ridge, with Dr. Samuel Howie officiating, with burial in the Anderson Memorial Gardens.

Deepest sympathy is expressed by fellow workers and friends in Y-12 to the family.

Coffee Concert Offers Piano, Violin, Chorus

A varied program of piano, violin and choral music will be given at a Coffee Concert Sunday, February 25, at the Ridge Recreation Hall. The Oak Ridge Civic Music Association-sponsored concert is free to the public and begins at 8:15 p.m.

Jean-Marie Le Clair's "Sonata in D Major" will be the violin selection. Piano music will include Bach's "Prelude and Fugue in C Minor," and Shostakovich's "Three Fantastic Dances," along with "Pastorale and Capriccio" by Scarlatti-Tausig. The Madrigal Singers will offer "Surrexit Pastor Bonus" (The Shepherd Has Arisen); "O Softly Singing Lute," "Widmung" (Dedication) and "Poor Wayfaring Stranger." Ray Kuhn, Production Analysis, is one of the tenors performing with the Madrigals.

Safety consciousness pays.



The Bulletin acknowledges with sadness the passing of one of its good friends and cooperative fellow workers . . . Lettie Ault. Her friendly, cooperative attitude toward chores was always a joy. She will be greatly missed by friends in Engineering, and elsewhere in Y-12.

In and around the plant the week's developments start off with—

INDUSTRIAL RELATIONS

The Fire and Guard Department reports little activity down thataway, but did pause long enough to send get well wishes to Guard H. H. Neal, off with the miserable miseries.

Back in Grandpa's day they had something that would really make one sleep. They called it work.

MAINTENANCE

Electrical comes along with news of T. D. Bagwell vacationing. It's a pretty safe bet he's getting acquainted with his new little daughter and helping care for his two boys . . .



Susan Lee Hauther

This sweet little girl celebrates her second birthday next week, February 27. She is the daughter of Mr. and Mrs. R. C. Hauther. Her father is in Electrical. All of us wanted to get in and wish her a very happy birthday!

Other Electrolights are telling that V. T. Callaway's daughter, Jerry, was home this week-end from Carson-Newman College and brought three friends with her. It's heard that there was really a "ball" at the Callaway home . . . The welcome mat is extended for W. V. Blankenship and C. E. Conley who recently transferred to the Instrument Section . . . Still ailing are B. C. Neubert, Sam King, Bill Cobb, N. L. Derryberry, and C. E. Phillips. Speedy get well wishes are sent to all . . . R. C. Blevins is a welcome sight back after his recent bout . . . M. C. Gore is vacationing next week planning to spend some time with his son in from duty with the armed forces.



Arthur Valentine

Here's a late valentine at the Arthur Valentine home. The pride and joy of the family, of course, is little Arthur Valentine, age two months. His mother Wanda is a former employee in

Electrical. Congratulations Arthur and Wanda.



Regina Yvonne Ford

This lively little miss belongs in the household of Mr. and Mrs. Robert J. Ford. She was born New Year's Day, 1962 at Ft. Sanders Presbyterian Hospital. Her maternal grandparents are Mr. and Mrs. C. L. Huddleston, Route 18, Knoxville. The proud grandpop is in Research Services. This is the first grandchild so naturally it's the finest baby yet!

Never brag. Remember, it isn't the whistle that pulls a train.

MECHANICAL OPERATIONS

Production Control produces a raft of news this week with Carolyn Sharpe being a bridesmaid recently in a friend's wedding at Shelbyville . . . Ed and Jeanne Cothron recently entertained visitors from Kentucky . . . Lucy Parker terminated February 2 after being honored with a going-away party in the conference room of 9212 last Thursday. She was surprised with a beautiful silver tray, pink cake, coffee, and approximately 75 well-wishers for her future career . . . Congratulations to the Gene Matties on the birth of a third coon hunter, Wesley Keither, arriving February 10, tipping the scales at seven pounds, 12 ounces . . . Dick Dickerson is still convalescing at home and it is reported he's getting along fine, and expects to be back to work soon . . . Bob Harris attended the Jaycee State Convention in Gatlinburg the other week-end . . . The story came back (Bob didn't bring it) that Kathy Mills sang there and "twisted" all over them thar hills . . . A dieting trio, Jack Thomson, Jim Burns, and Jim Crone recently treated themselves to a steak dinner. Who picked up the check, Slim? . . . Get well wishes are sent to J. G. Plummer's wife who was hospitalized recently . . . Dave Owens says he has plenty of cats now. After getting three of Liz Harris' kittens, he has kittens to give away.

Special Mechanical Production people over in Z Area are telling that C. M. Cheek was on vacation last week, but didn't say where he war a-going.

The General Machine Shop is extending condolences to the following families: E. C. Hightower, whose brother died February 9; to A. H. Johnson, whose brother died recently . . . to Percy LaRue, whose father-in-law died February 11 in Nashville, and to C. E. Money maker, whose father passed away February 13.

Shoppers are also extending get well wishes to Richard Hawk, home ill.

If it's true that exercise will eliminate fat, how come so many women have double chins?

TECHNICAL

Radiation Safety is sending get well wishes to J. E. Cheek's wife . . . B. F. Rutherford recently

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Proud Y-12 Families Have Sons Serving Armed Forces In Florida And California



Lt. Gerald E. Hyde

Serving with the United States Army at Hunters Legate, California is Second Lieutenant Gerald E. Hyde, son of Mr. and Mrs. Clarence G. Hyde, 114 Warrior Lane, Oak Ridge. The service man's father is in Y-12's Research Services.

A graduate of the University of Tennessee, Lt. Hyde is expected home this summer by his family for the first visit since entering the Army last fall. The Hydies have three other children, Bobby and Billy, at home, and Sandra who is practicing nursing at Baptist Hospital, Knoxville.

The Hydies are originally from Bryson City, N. C.



Detra N. Smith

On duty now in Pensacola, Fla., is Detra N. Smith, son of Mrs. Frances Smith, Property. The young seaman spent the Christmas holidays at home with his mother at 103 Vassar Lane, Oak Ridge.

Seaman Smith took his "boot" training at Great Lakes, Illinois. Before donning the blue of the United States Navy, he attended Oak Ridge High School. How lucky can a sailor get . . . spending the winter in the balmy port of Pensacola?



Get well wishes are sent the following Y-12 employees who were patients last week in the Oak Ridge Hospital.

David A. Bryant, Sunflower Shop; Van C. Barnes, Engineering Mechanics; Edward R. Garrett, Process Maintenance; Wesley H. Green, Area Five Maintenance; Milton L. Rice, Product Processing; James C. Terry, Tool Department.

Y-12ers Celebrating 15, 10 Year Anniversaries

Congratulations to the following Y-12ers who will observe 15 and 10-year anniversaries with Carbide within the next few days.

15 YEARS

George M. Delcours, Machine Maintenance, February 24.

10 YEARS

Lyman E. Odell, Z Area and Dispatching, February 21.

Hoke S. Culbertson, Process Maintenance, February 27.

RCA's Rosi Addresses Metals Group Tonight

The Oak Ridge Chapter of the American Society for Metals will meet tonight, Wednesday, February 21, at a dinner meeting at 6:15 p.m. at the Holiday Inn, Oak Ridge. Dr. Fred D. Rosi, Associate Laboratory Director for the RCA Laboratories will speak on "Semi-Conductor Metallurgy." Dr. Rosi is a Yale graduate, a member of Sigma Xi, AIME, and the American Physical Society.

The after-dinner get together will be held at 7:30 p.m. and the technical meeting will begin at 8. Any ASM member and guests are welcome to attend this important and interesting meeting.

wore a dress of blue lace over satin and carried white carnations covering a white Bible. A reception followed at the groom's parents' home.

Attending the couple were Clyde Hill and Miss Connie Hill. The bridesmaid wore a dress of pink taffeta.



WEDDINGS



Mr. and Mrs. James G. Hill

HILL-HOWARD

Miss Betty Sue Howard and James G. Hill were married February 3, 1962, at the home of the groom's parents, Mr. and Mrs. Clyde L. Hill, Kingston, Tenn. Mr. Hill is in Y-12's General Machine Shop. The Reverend Roy Maddox of Shiloh Baptist Church officiated at the ceremony.

The bride is the daughter of Mr. and Mrs. James Howard, Dalhart, Texas. She attended school in Dalhart, and is presently employed at the Burlington Hosiery Mills, Harriman.

The groom is a 1958 graduate of Oak Ridge High School. He is an Airman First Class in the United States Air Force and will be stationed in San Antonio, Texas Air Base to attend Officers Training School there.

For her wedding the bride

Washington's Words Give Human Side Of 'Father Of Our Country'



Y-12's Bowlers Set For Annual Get-Together

The big Annual Y-12 Bowling Tournament rolls Saturday and Sunday, February 24, 25, at the Oak Terrace Lanes. A total of 18 men's teams, which encompasses 36 doubles and 72 singles have entered for tournament action. Four mixed doubles have registered, four women's doubles and eight women's singles are slated for alley play.

Saturday's alley activity will see the Play Boys rolling at 12:30 p.m. This is necessitated by shift work. At 3 p.m. five men's teams and four mixed doubles will start the tournament. Then at 6 p.m. 12 men's teams will roll. Sunday's schedule will see four men's doubles rolling at 10 a.m. Full sessions, occupying all the alleys will be held at 1:30 p.m., 4 p.m. and again at 7 p.m. Sunday.



Ride wanted from 208 Butler Road, Oak Ridge, to East Portal, straight day. Sandra Stephens, plant phone 7-8226, home phone Oak Ridge 483-9629.

Car pool members wanted from North Knoxville section to North Portal, straight day. Sid Norman, plant phone 7-8313, home phone Knoxville 525-6587.

Will join small car pool (compact car) from West Acres Drive, West Knoxville, to North Portal, straight day. Jerry Westbrook, plant phone 7768, home phone Knoxville 584-1689.

Bids On Hay To Be Opened Next Thursday

The hay for sale in and around Y-12 will be awarded in bid openings at 2 p.m. March 1. Employees wishing to bid on the 105 acres of good hay should submit their bids to the Sales Office. More information may be had by calling extension 4601. Inspection maps will be shown to interested parties. Successful bidders must furnish "Q" cleared personnel to escort uncleaned workers inside the Security Fence. The hay lays outside, as well as inside the fence.



"I don't want to seem dictatorial about your coffee breaks, men, but...."

Y-12's 22 Men Independents' Rough Medicine

Y-12's 22-men took the Independent firers to the cleaners last week, defeating them 1130 to 1121 in scratch scoring, and 1164.374 to 1156.979 in handicap tallies. The 22-Calibre Rifle League for Carbide riflemen shoot at Clinton every Wednesday night.

Leading the pack, Jack Huff topped the scratch list with 287, followed by Bert Searles' 281. Phil Vogelgesang led handicap targetmen with 293.886, followed by Al Blay's 291.910. Dave DeWalt led the Independents in scratch firing with 286, while George Patterson took handicap honors with 293.110. Oak Ridge National Laboratory men took a forfeit from the defunct Oak Ridge Gaseous Diffusion Plant team.

League standings follow:

Team	W	L
ORNL	20	5
Y-12	18	7
Independents	12	13
ORGDP	0	25

Rollmasters 3 Point Victors Over Planners

Y-12's Rollmasters in the Wednesday 5:45 League for Carbide Bowlers got in a few licks last week at the Planners, from Oak Ridge Gaseous Diffusion Plant. They took three from the ORGDP team.

This gives them an edge on the third berth in league standings, only four points removed from first place.

Jake Horton, Head Pins, rolled high singles games with a 221 boosted to a 249 handicap game. Bob Teague, Cast Offs, had the high scratch series score with 550 and Ralph Knight, Planners, took the high handicap series scoring with 628. High team handicap game went to the Wallops with 1046.

League standings follow:

Team	W	L
Head Pins	59	37
Planners	58½	37½
Rollmasters (Y-12)	55	41
Mix Ups	54	42
Sandbaggers	53	43
Cast Offs	52½	43½
Wallops	45½	50½
Lab Demons	45	51
Woodpeckers	43½	52½
Pirates	42	54
Wacos	34	62
Rookies	34	62

Geese Are Ready For Far North Trip

Several thousand winter residents of this area are now busy attending to the many details of preparing for an extended honeymoon flight to the Land of the Midnight Sun. For some of the honeymooners the trip will be the first excursion of marital bliss, while for many of the older couples, it will be a repeat performance.

On the nearby Hiwassee Island Refuge, boy geese are cuddling up to the girl geese and as is usual, the girls are being coy about the whole affair. But since it takes two to make a honeymoon, such courting tactics will continue until they leave for the nesting grounds near the Arctic Circle. Once paired off, the winter residents of the island will begin the leisurely honeymoon trip north.

From the banding operations being carried on by the Tennessee Game and Fish Commission, it has been determined most of the Canada geese that spend the winter months in East Tennessee return to the James Bay area of the far north for the summer months.

There is no holiday for security.



THE FIRST FISH in the 1962 Annual Ro-deo just happens to be a sauger. This comes as no surprise, since that's about all that's biting during the winter months. Here, Fred Leon, Research Services, exhibits his proud catch that was pulled from the Little Tennessee River recently. Fred says he caught the "good one" on a hadacol.

Eagles Improve Volleyball Stand

Take Two Forfeits From ORNL Biology

The Y-12 Eagles took three games easily in the Volleyball League for Carbiders last week, by gaining a forfeit over Oak Ridge National Laboratory Biology team.

Other games saw league-leading Set-Ups win three from Biology 15-0, 15-0, 15-0. ORSORT men and the ORNL Old Men split a series of three games, the ORSORTs taking two 15-9, 15-2, and the Old Men taking one 15-9.

No activity was reported by other teams.

League standings follow:

Team	W	L
Set-Ups	17	1
A Shift	13	2
Y-12 Eagles	10	8
ORNL Old Men	8	8
ORSORT	7	11
Raiders	6	12
Biology	0	18

Carbide Opens 'Down Under' Research Center

Union Carbide has opened a Research and Development Center in Sydney, Australia.

The center, financed and operated by Union Carbide Australia, Ltd., will adjoin its 32-acre Chemicals Division Plant. It will serve to bring together all the company's research and development activities for its Chemicals and Plastics Divisions. The modern two-story building has twelve laboratories, administrative offices, a library, and a lecture room with a seating capacity of 50. According to the International Company, the Center will be used for basic and applied research.

BEAR FACTS

The polar bear is a tireless, clever hunter, with good eyesight and an extraordinary sense of smell. He rarely leaves the ice pack except when attracted to land by the scent of food.

Guttersnipes Win Big At Kingston

Don Bronson Rolls 206 Scratch Game

Y-12's Guttersnipes got hot in the Kingston League for Carbide bowlers last week. They took four points from the Head Pins and swept the board for top honors. Don Bronson rolled high scratch game by posting a 206; Finnell rolled a 233. The 'Snipes in series play tallied 550 and 640.

Other teams clashing down Kingston way had the Sparemen over the Alley Cads by three, and the Rookies and Could B's split two each.

The Guttersnipes and their hot night at the alleys put them in a shaky first place position in league standings.

League standings follow:

Team	W	L
Guttersnipes (Y-12)	16	8
Alley Cads	14	10
Head Pins	13	11
Rookies	12	12
Could B's	10	14
Sparemen	7	17

Y-12 D League Teams Beaten In Alley Action

The D League for Carbide Bowlers last week featured Y-12's Rodders and the trouncing they took from the Kemix team from Oak Ridge National Laboratory. The Rodders fell by the full four points. Y-12's other team in the league did not fair so well either, as the Dry Hides fell by three points.

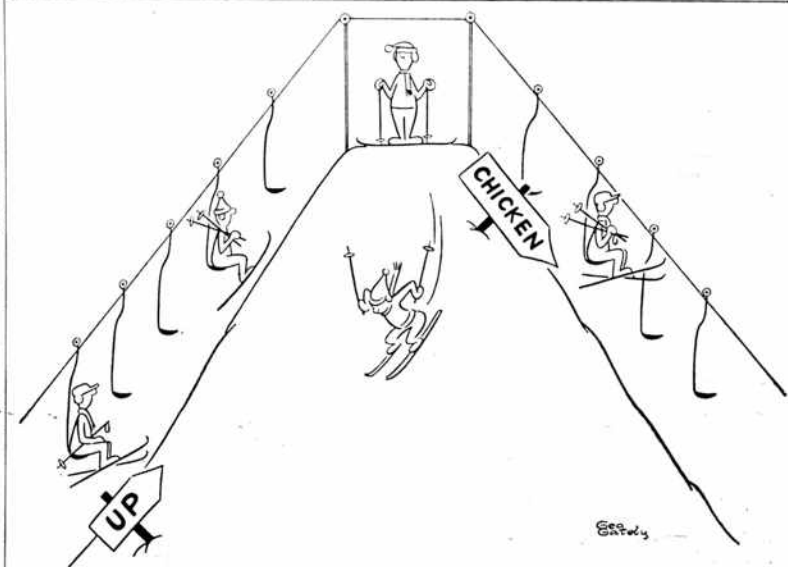
High scratch game was rolled by ORNL's Soldano on the Beryl team with a 245. Team highs handicap-wise went to the Kemix team in their rout over the Y-12 alleymen, with 2962.

League standings follow:

Team	W	L
Kemix	9	3
Sh-Booms	8	4
Pin Heads	8	4
Beryls	8	4
Alley Rams	8	4
Rodders (Y-12)	6	6
Hephex	6	6
ORNS	5	7
Dry Hides (Y-12)	4	8
Termites	4	8
Gassers	3	9
Guttersnipes	3	9

7c Gasoline Tax Is Deductible In Tennessee

Tennessee tax-payers are allowed seven cents for every gallon of gasoline used last year in claiming income tax deductions. Here's how to compute the allowance. Estimate the total miles you drove in 1961 (Average passenger car mileage in 1960 was approximately 9,500, according to the United States Department of Commerce.) Divide your mileage by the number of miles per gallon your car gets (Average mileage per gallon for passenger cars was 14 in 1960.). Then multiply the result by the number of cents per gallon paid in state gasoline tax (7c).



BULK RATE
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Carbide President Mason Looks At Chemical Industry's Future

Union Carbide Corporation president Birny Mason, Jr. sees continuing upward trend in industrial chemicals production in 1962. In a year-end statement released to the press, Mason commented, "Our present estimates indicate that the tonnage output for the chemical industry will be about 10 per cent higher than in 1961."

He pointed out that the chemical industry had another record year in 1961 despite some serious problems, such as a considerable amount of unused production capacity and weakening prices. Industry activity was slowed by the 1960-61 recession during the first quarter of the year, but production improved as the year progressed.

Total 1961 production of industrial chemicals is estimated to have reached 95 million tons, a gain of about three percent over 1960. Dollar value is expected to be about \$11.5 billion, an increase of about two per cent. This does not include allied products such as paints, soap, rubber, and drugs.

World Economy Involved

One of the major problems that confronts United States industry today, Mason feels, is adapting to operating in a world economy. "We find competition becoming more and more intense, both at home and abroad," he said. "The efficiency that industry here has attained with large-volume production will be a big factor in this nation's ability to compete successfully in world markets."

However, Mason stressed the fact that under present conditions many companies are continually faced with the problem of finding ways to cut their operating costs and to improve product quality. Along with this has come the need for keeping a steady stream of new developments on the way to gain new markets and customers. Many millions of dollars are spent annually by the chemical industry for research and development of new products.

Research Takes Bite

For example, Union Carbide's research expenditures in 1961 amounted to approximately \$85,000,000, or 5.4 per cent of sales. Expenditures over the next five years will be determined largely by the technical problems related to increasing sales volume.



Birny Mason, Jr.

Library Friends Bring Noted Writer To Ridge

Friends of the Oak Ridge Library are bringing one of America's best known writers to Oak Ridge. Cleveland Amory, witty author of "Who Killed Society?" will talk on that same subject Monday, March 5, at 8 p.m. at Jefferson Junior High School. The lecture will be followed by a reception at the Library to climax an intensive membership drive.

The distinguished author first came to literary fame in 1947 with the publication of "The Proper Bostonians." A proper Bostonian himself, Amory not only added a phrase to the American language, he followed his first success with a bestselling satirical novel on New York's publishing business called "Home Town." In 1952 Amory published "The Last Resorts," an irreverent account of the playgrounds of the rich and social-climbing in general. Last year's "Who Killed Society?" complete his trilogy on society.

Tickets are available at the Library, as well as 1962 membership cards for the Friends.

Sholom Aleichem's World At Beth El Center

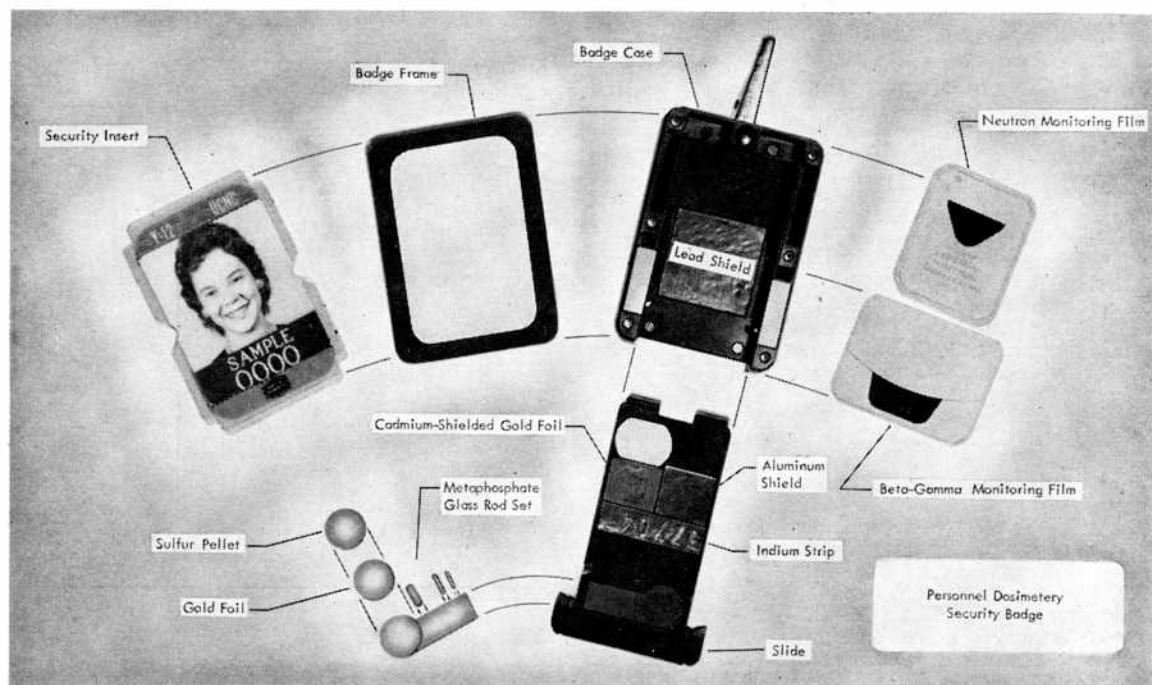
"The World of Sholom Aleichem," will be the fifth annual production of the Jewish Congregation of Oak Ridge. It will be presented at the Beth El Center, Oak Ridge, Saturday and Sunday, February 24, 25, and repeated the following week-end March 3, 4.

First staged in New York in 1953, "The World" starred Howard Da Silva and Morris Carnovsky. Critics praised it for its "robust humor" and for the "quaint humanism of the Yiddish Mark Twain, Sholom Aleichem." The play is actually three one-act dramas, all based on folk talks of the East European ghettos. Rabbi Kenneth Bromberg will narrate the three plays. The play is directed by Ann Diamond.

Advance tickets are on sale for the four performances.



"What's the matter with me, anyway—heredity or environment?"



A CUT-AWAY VIEW OF A TYPICAL BADGE worn by any individual entering the Y-12 Plant, both employees and official visitors, shows the two monitoring films which are inserted in the identification pieces. (That's Radiation Safety's pretty Dixie Stinnett in the mock-up badge picture.)



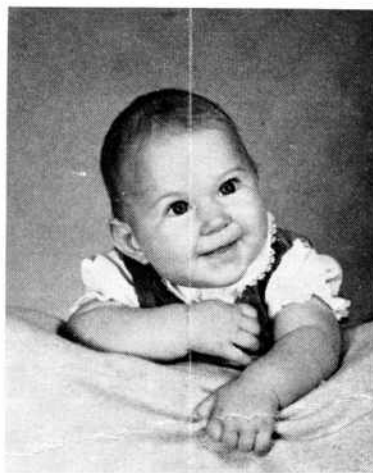
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 moved into his new house on Riverbend Road in Clinton . . . C. M. "Hap" West is busy supervising the workers who are adding on to his house . . . Best wishes go to Dave Allison who left last week to join the Production Inspection Department.

Metallurgical Development is sending condolences to the Charles F. Meadors family whose one-day old son died February 7 . . . Announcement is made of the birth of a little girl for the Robert B. Burdetts. Little Carol Ann was born in Oak Ridge Hospital February 9. She weighed six pounds, three ounces.

Special Projects down in Beta Four are beaming over the latest arrival at the Jim Dowell home. Denise Nanine was born February 13, 1962, weighing in at seven pounds. Congratulations!

Advice is one commodity in which the supply is always ahead of the demand.

CHEMICAL OPERATIONS



Leslie Joette Rule

This cute youngster has folks all over the place. Her grandfather is Taylor S. Arnold, Chemical Operations. She has an uncle, Gordon L. Rule, TW Shop. Her mother is an ex-Y-12er also, Joette Rule, formerly of Chemical Operations. The Rules live at 200 Delaware Ave., Oak Ridge. Little Leslie Joette is now five months old, and her happy personality shows all over the place.

If you have teen-agers around the house, don't worry about them. There isn't a thing in the world wrong with them that a little reasoning won't aggravate!

It is incumbent upon each employee to prevent inspection of or access to classified matter by unauthorized personnel.

Radiation Lab

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agency involving nuclear incidents would bring about the following steps: personnel are screened by measuring the activation of the indium contained in the security badges. Where significant activation is observed, the employee is then directed to the Medical Department where, among other things, a blood sample is obtained. The blood sample, badge, and threshold detectors are then analyzed at the ERDL. This correlated data would prove more nearly accurate than any one procedure isolated alone.

Last summer the laboratory was employed in a simulated critical incident. Its capabilities were demonstrated in this "test run." The facility was transported 12 miles from Y-12 and was operational 39 minutes after the request for assistance had been telephoned in. No equipment failures occurred along the route, and satisfactory analyses were performed on a complete dosimetry complement.

Mobility Is Advantage

The ERDL's mobility is one of its great advantages. It may be transported to a convenient operation location near the scene of study, or away from it, whichever need would exist.

A self-contained water supply, plus power generation, makes the ERDL completely independent from outside source failures. That is, the mechanisms would still be operational under extreme conditions where the power and water supply were cut off. The complex apparatus was designed and developed in Y-12.

Many Materials Used

Utilizing the properties of such materials as gold, sulfur, indium, thallium, sodium iodide, silver metaphosphate glass, cadmium, copper, lead, uranium, plutonium and neptunium the ERDL is a far cry from Monsieur Becquerel's "mistake" nearly 70 years ago. Various area dosimeters are located strategically throughout the plant with their variety of complex of radiation-sensitive materials.

Protective equipment and clothing are also carried in the ERDL trailer. Survey instruments measuring both beta and gamma rays of radiation are tools of the trade for Radiation Safety men.

Can Serve Other Plants

The ERDL is available at call for survey of nuclear emergencies in the other two Union Carbide Nuclear Company plants, Oak Ridge Gaseous Diffusion Plant, and Oak Ridge National Laboratory. Its home normally is in Y-12, but tomorrow it is going out to town.

Personnel will be available at the ERDL tomorrow to answer questions. Plans for the exhibit are being coordinated with Y-12

Millionth Pound Is Shipped By ORGDP

A large shipment of enriched uranium containing the millionth pound of uranium hexafluoride for use in peaceful applications of atomic energy has been made from the Oak Ridge Gaseous Diffusion Plant.

The enriched uranium will be used in the fabrication of fuel assemblies for the Consumers Power Company nuclear power station at Big Rock Point, Mich. It consisted of 10,600 pounds of uranium hexafluoride which makes a total of 20,831 pounds shipped to date to United Nuclear Corp. at Hematite, Mo., for further processing. The ORGDP installation is operated by Union Carbide Nuclear Company for the United States Atomic Energy Commission.

Some 35,800 pounds of uranium hexafluoride containing 24,200 pounds of uranium enriched to 3.2 per cent of U-235, a fissionable isotope of uranium, will be needed to fuel this reactor.

The Michigan nuclear power station, being built under an agreement with the AEC as part of the Power Demonstration Reactor Program, will be of the boiling water type. It will generate 50,000 electrical kilowatts and will be available for research and development.

ORNL's Buck To Lead Physics Seminar Friday

The Physics Division of Oak Ridge National Laboratory announces as its Friday Seminar "Strong Coupling Theory of Inelastic Scattering." Leading the discussion will be B. Buck, of ORNL's Neutron Physics Division. The seminar is set for 3:15 p.m., Friday, February 23 in the Central Auditorium of the 4500 building.

All interested technical personnel are invited to attend.

personnel by the East Tennessee Chapter of the Health Physics Society and the Technical Societies' Joint Council. The interesting move is a part of the observance of Engineering Week which always falls during the week of George Washington's birthday.

It's a good opportunity for Y-12ers to see how complex this business of monitoring radiation can really get.



It makes sense
 TO
 OBEY YOUR
 TRAFFIC
 LAWS.